

PRO **Locator**[™]

Portable Air Sampling/Aspirating Fire Detector Engineering Specifications

July 2007

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PORTABLE HANDHELD DETECTOR:

Air sampling systems will notify in which room, but portable air sampling detectors can tell you where in the room.

ProLocator™

ENGINEERING SPECIFICATIONS

CSI SECTION []

AIR SAMPLING SMOKE DETECTION SYSTEM(S)/PORTABLE

PART 1 - GENERAL

1.01 SUMMARY

- A. Equipment to be used in conjunction with any fire alarm system to isolate early warning alarms.
- B. Section includes high sensitivity early warning system accessories
- C. Related Sections
 - 1. Section 16720 - Fire Alarm and Detection Systems
 - 2. Section 15300 - Fire Protection Systems

1.02 EQUIPMENT

- A. Function
 - 1. Portable detector to be used for locating the fire source inside any zone of an Early Warning Fire Detection (EWFD) or High Sensitivity Smoke Detection (HSSD)[®] system.
 - 2. Unit is compatible with any air sampling or spot fire detection system.
- B. Operation
 - 1. The handheld portable detector must be battery powered, less than 14 lbs. and must have the capability of detecting inside cabinets via a sample probe.
 - 2. The portable detector must be capable of detecting an invisible, odorless fire. Upon notification of an early warning alarm from the system, the portable detector can be used to determine the location of the alarm inside the room.
 - 3. Unit must not respond to dirt or dust drawn into the detector.
- C. Design
 - 1. Unit must be designed as a portable detector.
 - 2. Air Sampling Detectors modified for portable use are not acceptable.

1.03 SUBMITTALS

- A. Submit product data under provisions of section []
- B. Supply one copy of the manufacturers Operating Manual

1.04 QUALITY ASSURANCE

- A. Qualifications
 - 1. Manufacturer: The manufacturer shall have a minimum of 15 years experience in the design and manufacture of fire detection equipment.
 - 2. Technology: Has been utilized and field proven for a minimum of 15 years.
 - 3. Equipment suppliers: The equipment suppliers shall be factory authorized and hold a valid training certificate number.

PART 2 - PRODUCTS

2.01 MANUFACTURER

- A. Acceptable Manufacturer: Protec by: SAFE Fire Detection, Inc.
5915 Stockbridge Dr.
Monroe, NC 28110
(704) 821-7920
- B. Detection Method: Air Sampling/Aspirating early warning using CCD technology which can detect from 0.000% to 100% obs/ft.

2.02 MANUFACTURED UNITS

- A. ProLocator™, Part #: 6198695

2.03 COMPONENTS

- A. CCD Detector Assembly
 - 1. The portable detector, and its component assembly, shall be mounted in a single enclosure which draws an air sample through a sampling probe to the detector.
 - 2. The detection principle shall be of CCD type with the ability to detect particles ranging from 0.002 to 10 micrometers in size, which are produced by overheating and combustion, and can operate within the range of 0.000% to 100% obs/ft. Electrical arcing or overheating shall be easily detected while remaining unresponsive to false readings from ordinary dirt, dust, or moisture (water vapor).
- B. The portable detector must include the following minimum features:
 - 1. LED's indicating Level 1, Level 2, Level 3, and Level 4 combustion particulate readings. (the closer to the source, the higher the level).
 - 2. Variable audible indicator from silent, pulsating, and continuous tones depending on sensitivity and proximity to the fire source.
 - 3. Ten incremental sensitivity settings to compensate for ambient background particulate and enhanced localizing ability.
 - 4. Increase and Decrease Sensitivity buttons
 - 5. Fault Indicator
 - 6. Detector fire analysis with continuous sampling
 - 7. 100% solid-state circuitry
- C. LCD display on detector
 - 1. Displays current sensitivity level of unit
 - 2. Prompts to position the unit vertically

2.04 EQUIPMENT

- 1. Portable self contained unit with sample probe and batteries
- 2. PVC Sampling Probe and hose for use in cabinets
- 3. 110/220V battery charger
- 4. Optional hard shell carrying and storage case, Part #: SP990023